Table 1: November 20, 2002 - System Issues and Status

Activity	Lead	Status
Processing Strategy	Geier	As of 11/18/02 • Active processing requests in approximate order of priority: - Terra Edition2 BDS and ERBElike data sets (PR 74-02 to 79-02) - Terra Edition1A SSF data set (PR 84-02, 83-02) - ECMWF-GESO3 MOA for Sep'02 (PR 90-02) - ECMWF GEOS4 MOA for Oct'02 - Oct'03 (PR 94-02) - Terra Beta1 SFC for Nov'00 - Aug'02 (PR 86-02, 87-02) • Processing requests expected to be active within 3-4 weeks are: - TRMM Edition2B FSW for 9 months - ValR7 GGEO for Nov'00 - Dec'00 (PR 91-02 to 93-02) on HOLD awaiting redelivery - Terra Beta1 SFC PGE 9.4P1 awaiting redelivery - Edition1 GGEO for 9 TRMM months - Terra Beta3 CRS - TRMM Edition2B SRBAVG for 9 months • Processing requests expected to be active within 1-2 months are: - Aqua Baseline1 BDS and ERBElike - Terra Beta3 FSW • Issued processing requests which have been placed on hold: - Standing request for Baseline1 BDS, ERBElike. Continue processing Edition1 until all BDS & ERBElike data has been reprocessed as Edition2 and Science is happy with it. Only then will Edition1 be replaced by Baseline1.
CM	Ayers	• See Table 2 for SCCR activity since the last DMT meeting. SCCRs for Subsystems 1-4 that need to be reviewed follow Table 2. (Ayers) • Performed SSI&T of CERESlib, Instrument, and Clouds on *samantha2*. (Ayers) • Completed updates to the cgi scripts to make them compliant for LMS-CP-5909. (Franklin)

Table 2: SCCR Activity November 4 at 11:30am - November 18 at 11:30am

SCCR	S	U	A	C	D	SS	Page No.	Comments
385		X			X	1	2	
402	X					1	3	

S=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument SCCR Date: 08/28/2002 SCCR Number: 385

Description of Change (Science):
Gain Coefficients for Aqua FM3 and FM4 are incorrect and need to be updated to the proper values.

Reason for Change (Science):
Incorrect Gain Coefficients for Aqua FM3 and FM4 are being used in production.

Description of Change (non-Science):
N/A

Reason for Change (non-Science):
N/A

Affected PGEs : CER1.3P5 and CER1.3P6

Est. Time to Complete Changes: 1 day
Planned Delivery Date : Aug. 29, 2002
Impact : Possible reprocessing of Aqua Beta1 products beginning 6/2002

Date: 08/28/2002 Status: SUBMITTED

Originator: COOPER, DENISE L. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 385:
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Description of Change (Science):
This SCCR should be disapproved/cancelled. This change is being incorporated into a full delivery under SCCR #402.

Reason for Change (Science):
N/A

Description of Change (non-Science):
N/A

Reason for Change (non-Science):
N/A

Affected PGEs : CER1.1P5 and CER1.1P6

Est. Time to Complete Changes: N/A
Planned Delivery Date : N/A
Impact : This SCCR is being superseded by SCCR #402

Date & Time: 2002-11-15 13:57:08

Originator: COOPER, DENISE L. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument SCCR Date & TIME: 2002-11-15 13:53:38 SCCR No.: 402

Description of Change (Science):
1) Gains for Aqua-FM3 and Aqua-FM4 modified
2) Ground Based Offsets added for Aqua-FM3 and Aqua-FM4

Reason for Change (Science):
1) Incorrect Gains were inadvertently introduced in the previous delivery
2) Initial Offsets were set to zeros, since a deep-space calibration is not scheduled for several months, the ground-based offsets will be used until a deep-space calibration is performed.

Description of Change (non-Science):
1) Metadata routines modified to work for all PGEs
2) Make scripts modified to allow compilation for newest ToolKit

Reason for Change (non-Science):
1) Metadata routines for the newest CER1.3Px PGEs were initially developed for each of the PGEs. This update consolidates all the necessary information, so that only one set of metadata routines is used for all Instrument PGEs.
2) Make scripts were modified, so that transition to the newest ToolKit can be made without a delta delivery in the future.

Affected PGEs :
CER1.1P1 thru CER1.1P6, CER1.2P1, CER1.3P1, CER1.3P2 and CER1.3P3

Est. Time to Complete Changes: 1 week
Planned Delivery Date : Nov. 19, 2002
Impact : No reprocessing will be done at this time

Originator: COOPER, DENISE L. (SAIC)

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Cooper/ Escuadra	• Worked on development of commands for scanning in the principal plane to gather more data for Norm Loeb for ADMs. (Szewczyk) • Tested code to set all radiances to CERES Fill-Value when any one channel is saturated. Test data sent on to ERBE-Like for further analysis. (Escuadra) • Completed code to properly report long dwell scan profile for Aqua. (Hess) • Worked on analysis of Second Time Constant Values for Aqua and Terra. (Spence) • Prepared delivery of all SS1 PGEs to CERES CM. This delivery is in support of Aqua Edition1 processing. A delta delivery will be necessary to update coefficient files for Aqua before we are ready to start processing as Edition1. (Cooper)	

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
2.0	Kizer	• Tested and verified ERBE-like Subsystems on *Samantha2*. Ghostview was added and modifications were made to the surfmap_io.f90 module in cereslib. (Kizer) • Began study of Terra inter-comparison when both FM1 and FM2 are in identical start time and scan mode. (Kizer, Walikainen) • Continue to incorporate the direct comparison scripts and programs to run in conjunction with CER3.2P1 when only two instruments are combined. (Kizer) • Continued development of IDL code to plot daily updated instrument statistics files. (Kizer) • Continued looking into thermal offsets for Terra and Aqua. Applied generated Terra FM1 and FM2, and Aqua FM3 and FM4 thermal offsets to CERES data. Effects of new offsets were quantified and presented to instrument team. (Walikainen) • Continuing to examine the production email generated by the QC checker software. (Walikainen) • Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)	
3.0	Kizer	Combined with above.	

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Generated web pages for MODIS Edition 1A CloudVis results (completed 2 months of MODIS Edition 1a for regions 4, 7, 17, and 29) and TRMM VIRS Edition 2 region 12 results. Processed CloudVis images for 1998-1999 TRMM VIRS Edition2 Brazil (south) region. (R. Brown) • Reprocessed S'COOL data sets from 1997-October 2002 due to the late arrival and reprocessing of S'COOL raw data. (R. Brown) • Post-processed QC results for Feb.-April 2001 for Terra MODIS Edition 1A. (R. Brown) • Updating part of the Cloud Web Page (Visualization pages) for web compliancy. (R. Brown) • Completed validation and intercomparison of DAO-GEOS4 and ECMWF MOA. Posted the results on the web for Bruce and Pat. (Chen, Sun-Mack) • Validated version 004 Terra MODIS data and the data is ok. (Sun-Mack) • Implemented bi-directional model for 2.1um to the Clouds production code. The results have been validated. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Tested PGEs using Toolkit 5.2.8.2v2. All programs run under new Toolkit, but comparison files need to be created. (Miller) • Successfully tested all PGEs, but TRMM-VIRS on *samantha2*. (Miller) • Monitoring Terra Edition1A processing. Three hundred and eighty-six hours did not process in June 2001. One hour was from CERES instrument diagnostics, the remaining from missing MODIS data (15-day shutdown). (Miller)	

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Copied February, March, April, and May 2001 FM1 and FM2 subset files to the Terra Edition1A SSF subset directories on the SCF for the ADM working group. The remaining monthly files will be placed in the directories as they become available on *samantha*. (Franklin) • Tested the Inversion PGEs successfully on the new *samantha2* computer. (Franklin) • Reviewed additional Archival Cleanup file lists for Erika Geier. (Nolan) • Provided FM1 and FM2 Edition1A Monthly Validation ASCII QC files for evaluation by the Surface-only Group. (Nolan) • Created daily SSF subset files which contained all available footprints for data where the CERES instrument on TRMM was in the along-track mode. Provided these subset files to the ADM working group and backed up files to tape archive.(Nolan) • Learned how the PCF generator uses c-shell scripting to create PCF files. (Hoppe) • Modified the Inversion Test Plan to include PGE4.6-3P2. (Hoppe)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Testing and debugging Instantaneous SARB at the SCF. (Coleman, Caldwell)	
7.2	Coleman	Combined with above.	
12.0	Coleman	• No new updates.	
7.1	Nguyen	• Wrote a read TSI program to read the output TSI for validation purpose. (Nguyen) • Validating TOA SW fluxes in GMT and correcting the cosine solar zenith angles in GMT. (Nguyen) • Re-wrote the SW interpolation program for better understanding and easier validation. (Nguyen)	

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
8.0	Nguyen	• As per Dave Young (RAB) requests, updated AVG/ ZAVG product parameter definitions to estimate the product sizes and provided the requested information to him. (Raju)	
10.0	Nguyen	• The DAAC reported an error when running March SRBAVG. Found the use of Edition1 GGEO caused the error in SRBAVG. Suggested to use Beta5 GGEO. (Nguyen) • Investigated the cause of the problem in running the time-series plot at the DAAC. According to Lisa Link the job was processed on *warlock* which has no IDL. (Nguyen) • Dave Young compared different versions of SRBAVG and found abnormalities in the comparison. Repeated the run for 5 zones and compared with the SRBAVG at the DAAC and found no differences. Re-ran 5 zones using Beta5 version of GGEOs and PMOA, the abnormalities in the comparison showed. Investigating the cause of the problems. (Nguyen) • Continued working on SRBAVG Collection Guide. (Boghosian)	
6.0	Raju	• Completed DM Engineering testing for PGEs 6.1P1, PGE6.2P1 and testing PGE6.3P1. (Raju) • Modified FSW binary read software to include aerosol parameters and sent the updated programs to Fred Rose at AS&M. (Raju)	
9.0	Raju	• Ran production failed jobs for CER9.4P1 and found that the generated SFC HDF file sizes exceeded the file size limit due to more data at the poles for Terra processing. Started updating the code to increase the number of HDF files for Terra processing. (Raju) • Completed DM Engineering testing for Subsystem 9 PGEs on *samantha2*. (Raju) • Attended *samantha2* Readiness Plan Briefing. (Raju)	

Table 3: November 20, 2002 - Subsystem Status

SS No.	SS Lead	Status	Problems
11.0	Stassi	• Cathy found an error in the GGEO data. Three hours out of 232 in February 1998 had incorrect data. The problem was caused by initialization which occurs during the first hour of the month and the first hour of overlap data for both the preceding and following months. The problem extends to all data months processed by GGEO. The cause of the error was found and corrected. A patched GGEO file was created for February and July 1998. Cathy is checking to see if the problem is corrected. (Stassi) • Discussed with Nicole how the DAAC can correct the production GGEO files without a GGEO delivery and without having to rerun all the data for each month. The correction would involve selective reprocessing of the problem hours. This is contingent on Cathy concluding that the patched GGEO files are okay. We are still waiting for those results. (Stassi) • Wrote a program to create GGEO Web plots from a previously-existing GGEO file without having to first go through the full post processing. (Stassi)	
CERESlib Stassi/Ayers		• Added the HDF5INC variable to the makemake script so that this will be included in the subsystem Makefiles created with makemake. This variable is needed for compiling with Toolkit version 5.2.8. The ceres-env.csh startup scripts were modified so that the new Makefiles will continue to work with the 5.2.7 Toolkit. (Stassi)	